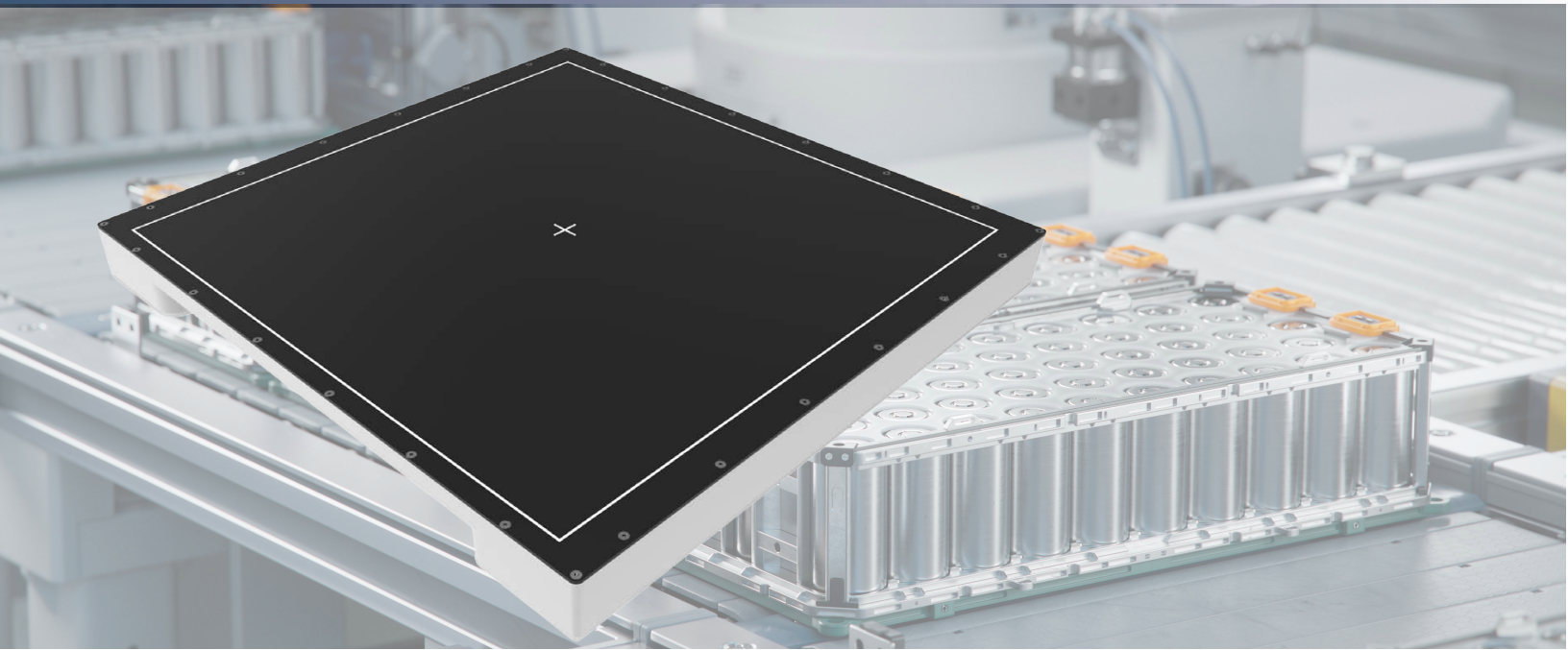


Azure 3131N-I Flat Panel Detector



OVERVIEW

Varex Imaging's Azure 3131N-I is a high speed, large area amorphous silicon Flat Panel X-ray detector for industrial applications.

The Azure 3131N-I supports a full 31 x 31 cm² field of view, is available with several scintillator options and shielding options for non-destructive testing, using energies up to 225 kV. This detector has a 100 μ m native pixel pitch and operates at 30 fps at full resolution and full field of view; it also supports different binning options and programmable field of views.

Rapid system integration is accomplished with integrated trigger and X-ray synchronization, on-board real-time image-processing and a comprehensive software library for image acquisition and processing.

FEATURES AND BENEFITS

- High resolution with high speed
- 30 fps @ 100 μ m
- Programmable ROI
- Designed for 24/7 Applications
- Ultra high sensitivity
- Up to 225 kV
- Real time corrections

APPLICATIONS¹

- Inline Battery Inspection
- Cone Beam Computed Tomography
- Metrology
- Scientific applications

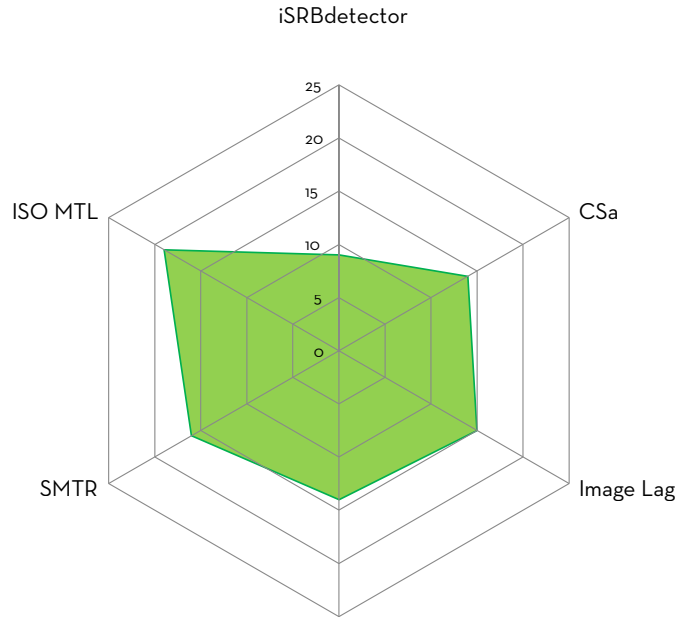
HIGH FRAME RATE

Azure 3131N-I allows for frame rates up to 30 fps for smoother motion at full resolution.

TECHNICAL INFORMATION

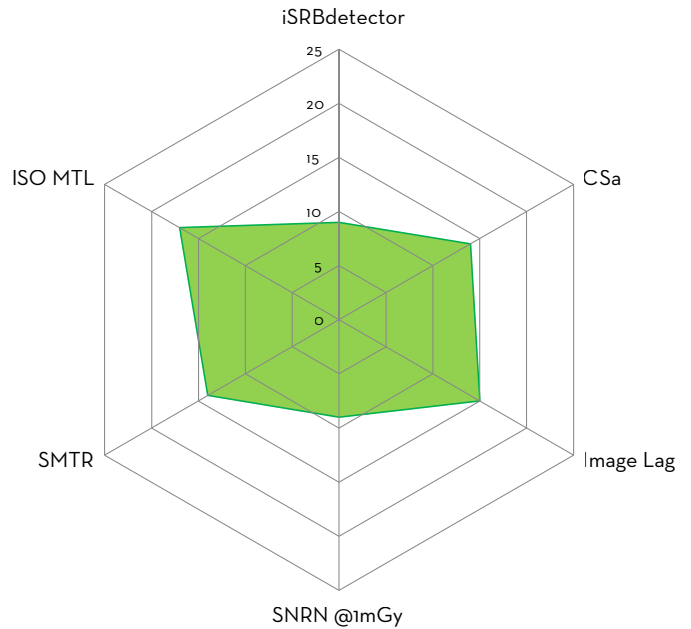
Panel	Amorphous silicon
Scintillator	CsI: Tl or various Gadox
Pixel Size	100 µm pitch
Pixel Matrix	3072 × 3072
Pixel Pitch	100 µm x 100 µm
Frame Rate	
Full Resolution	30 fps
Binning 2x2	60 fps
	<i>(Additional binning and programmable read-out modes are available.)</i>
Active Area (Total)	307 mm x 307 mm
ADC	16-bit
Charger Amplifier	Low noise ASICs
	with selectable gains
Data I/F	10G Ethernet
Software	64 bit Windows®/Linux OS
Size	347 mm x 337 mm x 31 mm
Weight	9 kg

Material: Al-7022



SNRN @1mGy

Material: SS-316L



SNRN @1mGy

The data in this document is for reference only.

¹ Unless otherwise specified, Varex Imaging Flat Panel X-ray Detectors are components intended to be integrated into products by X-ray system manufacturers. System manufacturers are responsible for qualifying and validating their products for their intended uses and meeting all applicable regulatory requirements. Contents in this document are subject to change without notice.



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